



SEQUENCE LISTING

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<120> Solid Support Assay Systems and Methods Utilizing Non-Natural
Bases

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<141> 2001-10-15

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<151> 2000-10-14

<150> 60/282,831
<151> 2001-04-10

<150> 09/861,292
<151> 2001-05-18

<150> 60/293,259
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<400> 124
 gtgtcttggc tgctcagtat g 21

<210> 125
 <211> 21
 <212> DNA
 <213> Artificial

<220>
 <223> synthetic oligonucleotide

<220>
 <221> modified_base
 <222> (1)..(1)
 <223> n represents deoxythymidylate labeled with 6-carboxyfluorescein
 (6-FAM)

<400> 125
 nggactgtcc aaagggatct c 21

<210> 126
 <211> 22
 <212> DNA
 <213> Artificial

<220>
 <223> synthetic oligonucleotide

<400> 126
 caacttcttg gtcattggtg tc 22

<210> 127
 <211> 19
 <212> DNA
 <213> Artificial

<220>
<223> synthetic oligonucleotide

<220>
<221> modified_base

<222> (1)..(1)
<223> n represents indodicarbocyanine
3-1-O-(2-cyanoethyl)-(N,N-diisopropyl)-phosphoramidite (Cy3)

<400> 127
nccttcctgc aytccacag 19

<210> 128
<211> 26
<212> DNA
<213> Artificial

<220>
<223> synthetic oligonucleotide

<220>
<221> modified_base
<222> (1)..(1)
<223> n represents deoxythymidylate labeled with 6-carboxyfluorescein
(6-FAM)

<400> 128
ncagtattat catctcctgg cttagc 26

<210> 129
<211> 20
<212> DNA
<213> Artificial

<220>
<223> synthetic oligonucleotide

<220>
<221> modified_base
<222> (1)..(1)
<223> n represents deoxythymidylate labeled with 6-carboxyfluorescein
(6-FAM)

<400> 129
ncacatacac catgtcagcc 20

<210> 130
<211> 17

<212> DNA
<213> Artificial

<220>
<223> synthetic oligonucleotide

<400> 130
tgagcagtcg gtcagtg

17

<210> 131
<211> 28
<212> DNA
<213> Artificial

<220>
<223> synthetic oligonucleotide

<220>
<221> modified_base
<222> (4)..(4)
<223> n represents iso-guanine

<220>
<221> modified_base
<222> (8)..(8)
<223> n represents iso-guanine

<220>
<221> misc_feature
<222> (11)..(11)
<223> n represents a n-propylene spacer (c3)

<400> 131
gtgnacangc ngcttcatac aaaccac

28

<210> 132
<211> 28
<212> DNA
<213> Artificial

<220>
<223> synthetic oligonucleotide

<220>
<221> modified_base
<222> (4)..(4)
<223> n represents iso-guanine

<220>
<221> modified_base
<222> (9)..(9)
<223> n represents iso-guanine

<220>

<221> misc_feature
<222> (11)..(11)
<223> n represents a n-propylene spacer (c3)

<400> 132
cgantctgnc ngcttcatac aaacccat

28

<210> 133
<211> 28
<212> DNA
<213> Artificial

<220>
<223> synthetic oligonucleotide

<220>
<221> modified_base
<222> (4)..(4)
<223> n represents iso-guanine

<220>
<221> modified_base
<222> (8)..(8)
<223> n represents iso-guanine

<220>
<221> misc_feature
<222> (11)..(11)
<223> n represents a n-propylene spacer (c3)

<400> 133
ctancaancc ncactctcct ctgtagaa

28

<210> 134
<211> 28
<212> DNA
<213> Artificial

<220>
<223> synthetic oligonucleotide

<220>
<221> modified_base
<222> (5)..(5)
<223> n represents iso-guanine

<220>
<221> modified_base
<222> (7)..(7)
<223> n represents iso-guanine

<220>
<221> misc_feature
<222> (11)..(11)

<223> n represents a n-propylene spacer (c3)

<400> 134

gagancnaag ncactctcct ctgtagag

28

<210> 135

<211> 31

<212> DNA

<213> Artificial

<220>

<223> synthetic oligonucleotide

<220>

<221> modified_base

<222> (5)..(5)

<223> n represents iso-guanine

<220>

<221> modified_base

<222> (9)..(9)

<223> n represents iso-guanine

<220>

<221> misc_feature

<222> (11)..(11)

<223> n represents a n-propylene spacer (c3)

<400> 135

gttcntgang ngaaaatttc ttagtgatcc t

31

<210> 136

<211> 30

<212> DNA

<213> Artificial

<220>

<223> synthetic oligonucleotide

<220>

<221> modified_base

<222> (3)..(3)

<223> n represents iso-guanine

<220>

<221> modified_base

<222> (6)..(6)

<223> n represents iso-guanine

<220>

<221> misc_feature

<222> (11)..(11)

<223> n represents a n-propylene spacer (c3)

<400> 136

gcntanctac naaaatttct tagtgatccc

30

<210> 137

<211> 29

<212> DNA

<213> Artificial

<220>

<223> synthetic oligonucleotide

<220>

<221> modified_base

<222> (5)..(5)

<223> n represents iso-guanine

<220>

<221> modified_base

<222> (7)..(7)

<223> n represents iso-guanine

<220>

<221> misc_feature

<222> (11)..(11)

<223> n represents a n-propylene spacer (c3)

<400> 137

ggtanctcc nagtgtagt tatttgggt

29

<210> 138

<211> 28

<212> DNA

<213> Artificial

<220>

<223> synthetic oligonucleotide

<220>

<221> modified_base

<222> (4)..(4)

<223> n represents iso-guanine

<220>

<221> modified_base

<222> (9)..(9)

<223> n represents iso-guanine

<220>

<221> misc_feature

<222> (11)..(11)

<223> n represents a n-propylene spacer (c3)

<400> 138
cacnatacng ngtgtagtt atttgggc

28

<210> 139
<211> 29
<212> DNA
<213> Artificial

<220>
<223> synthetic oligonucleotide

<220>
<221> modified_base
<222> (2)..(2)
<223> n represents iso-guanine

<220>
<221> modified_base
<222> (7)..(7)
<223> n represents iso-guanine

<220>
<221> misc_feature
<222> (11)..(11)
<223> n represents a n-propylene spacer (c3)

<400> 139
cntaccnatg ntaacaccag taagttgac

29

<210> 140
<211> 29
<212> DNA
<213> Artificial

<220>
<223> synthetic oligonucleotide

<220>
<221> modified_base
<222> (2)..(2)
<223> n represents iso-guanine

<220>
<221> modified_base
<222> (6)..(6)
<223> n represents iso-guanine

<220>
<221> misc_feature
<222> (11)..(11)
<223> n represents a n-propylene spacer (c3)

<400> 140

gncganaatc ntaacaccag taagttgag

29

<210> 141
<211> 28
<212> DNA
<213> Artificial

<220>
<223> synthetic oligonucleotide

<220>
<221> modified_base
<222> (2)..(2)
<223> n represents iso-guanine

<220>
<221> modified_base
<222> (7)..(7)
<223> n represents iso-guanine

<220>
<221> misc_feature
<222> (11)..(11)
<223> n represents a n-propylene spacer (c3)

<400> 141
gncgtanttg nagaataagg agagagca

28

<210> 142
<211> 27
<212> DNA
<213> Artificial

<220>
<223> synthetic oligonucleotide

<220>
<221> modified_base
<222> (3)..(3)
<223> n represents iso-guanine

<220>
<221> modified_base
<222> (7)..(7)
<223> n represents iso-guanine

<220>
<221> misc_feature
<222> (11)..(11)
<223> n represents a n-propylene spacer (c3)

<400> 142
gtntatnccg ngaataagga gagagcg

27

<210> 143
<211> 31
<212> DNA
<213> Artificial

<220>
<223> synthetic oligonucleotide

<220>
<221> modified_base
<222> (5)..(5)
<223> n represents iso-guanine

<220>
<221> modified_base
<222> (8)..(8)
<223> n represents iso-guanine

<220>
<221> misc_feature
<222> (11)..(11)
<223> n represents a n-propylene spacer (c3)

<400> 143
gacanaacntc nagaatagtc cttgctatta a

31

<210> 144
<211> 31
<212> DNA
<213> Artificial

<220>
<223> synthetic oligonucleotide

<220>
<221> modified_base
<222> (5)..(5)
<223> n represents iso-guanine

<220>
<221> modified_base
<222> (9)..(9)
<223> n represents iso-guanine

<220>
<221> misc_feature
<222> (11)..(11)
<223> n represents a n-propylene spacer (c3)

<400> 144
ggaanaacng nagaatagtc cttgctatta g

31

<210> 145
<211> 26
<212> DNA
<213> Artificial

<220>
<223> synthetic oligonucleotide

<220>
<221> modified_base
<222> (4)..(4)
<223> n represents iso-guanine

<220>
<221> modified_base
<222> (6)..(6)
<223> n represents iso-guanine

<220>
<221> misc_feature
<222> (11)..(11)
<223> n represents a n-propylene spacer (c3)

<400> 145
gatntncagc nagaatgcac actgca

26

<210> 146
<211> 25
<212> DNA
<213> Artificial

<220>
<223> synthetic oligonucleotide

<220>
<221> modified_base
<222> (3)..(3)
<223> n represents iso-guanine

<220>
<221> modified_base
<222> (6)..(6)
<223> n represents iso-guanine

<220>
<221> misc_feature
<222> (11)..(11)
<223> n represents a n-propylene spacer (c3)

<400> 146
gtnatntgcg ngaatgcaca ctgcg

25

<210> 147

<211> 24
<212> DNA
<213> Artificial

<220>
<223> synthetic oligonucleotide

<220>
<221> modified_base
<222> (4)..(4)
<223> n represents iso-guanine

<220>
<221> modified_base
<222> (8)..(8)
<223> n represents iso-guanine

<220>
<221> modified_base
<222> (9)..(9)
<223> n represents iso-guanine

<220>
<221> misc_feature
<222> (11)..(11)
<223> n represents a n-propylene spacer (c3)

<400> 147
gatngtcnng ngctagcgga ggcc

24

<210> 148
<211> 24
<212> DNA
<213> Artificial

<220>
<223> synthetic oligonucleotide

<220>
<221> modified_base
<222> (3)..(3)
<223> n represents iso-guanine

<220>
<221> modified_base
<222> (6)..(6)
<223> n represents iso-guanine

<220>
<221> misc_feature
<222> (11)..(11)
<223> n represents a n-propylene spacer (c3)

<400> 148
ggncnctnatgg ngctagcgga ggct

24

<210> 149
<211> 61
<212> DNA
<213> Artificial

<220>
<223> synthetic oligonucleotide

<400> 149
cttctcccat tgcccagggc actctcctct gtagartaga ctgatytttg tggagacatc 60
a 61

<210> 150
<211> 35
<212> DNA
<213> Artificial

<220>
<223> synthetic oligonucleotide

<220>
<221> modified_base
<222> (2)..(2)
<223> n represents iso-cytosine

<220>
<221> modified_base
<222> (5)..(5)
<223> n represents iso-cytosine

<220>
<221> modified_base
<222> (8)..(8)
<223> n represents iso-cytosine

<220>
<221> modified_base
<222> (12)..(12)
<223> n represents iso-cytosine

<400> 150
cngcnagnga tntgatgtct ccacaaagat cagtc 35

<210> 151
<211> 28
<212> DNA
<213> Artificial

<220>
<223> synthetic oligonucleotide

<220>
<221> modified_base
<222> (4)..(4)
<223> n represents iso-guanine

<220>
<221> modified_base
<222> (8)..(8)
<223> n represents iso-guanine

<220>
<221> misc_feature
<222> (11)..(11)
<223> n represents a n-propylene spacer (c3)

<400> 151
ctancaancc ncactctcct ctgtagaa

28

<210> 152
<211> 28
<212> DNA
<213> Artificial

<220>
<223> synthetic oligonucleotide

<220>
<221> modified_base
<222> (5)..(5)
<223> n represents iso-guanine

<220>
<221> modified_base
<222> (7)..(7)
<223> n represents iso-guanine

<220>
<221> misc_feature
<222> (11)..(11)
<223> n represents a n-propylene spacer (c3)

<400> 152
gagancnaag ncactctcct ctgtagag

28

<210> 153
<211> 13
<212> DNA
<213> Artificial

<220>
<223> synthetic oligonucleotide

<220>
<221> misc_feature

<222> (1)..(1)
<223> n represents a 5'-phosphate

<220>
<221> modified_base
<222> (2)..(2)
<223> n represents iso-guanine

<220>
<221> modified_base
<222> (6)..(6)
<223> n represents iso-guanine

<220>
<221> modified_base
<222> (9)..(9)
<223> n represents iso-guanine

<220>
<221> modified_base
<222> (12)..(12)
<223> n represents iso-guanine

<400> 153
nnatcnctng cng

13

<210> 154
<211> 18
<212> DNA
<213> Artificial

<220>
<223> synthetic oligonucleotide

<400> 154
agaacccttt cctcttcc

18

<210> 155
<211> 47
<212> DNA
<213> Artificial

<220>
<223> synthetic oligonucleotide

<400> 155
aagaaccctt tcctcttccg atgcaggata cttaacaata aatattt

47

<210> 156
<211> 39
<212> DNA
<213> Artificial

<220>
<223> synthetic oligonucleotide

<400> 156
gcagacagga yaaatattta ttgttaagta tcctgcatc

39

<210> 157
<211> 20
<212> DNA
<213> Artificial

<220>
<223> synthetic oligonucleotide

<220>
<221> modified_base
<222> (2)..(2)
<223> n represents iso-cytosine

<400> 157
tncatctaac agggagcgcc

20

<210> 158
<211> 25
<212> DNA
<213> Artificial

<220>
<223> synthetic oligonucleotide

<220>
<221> modified_base
<222> (2)..(2)
<223> n represents iso-cytosine

<400> 158
tntgatgtct ccacaaagat cagtc

25

<210> 159
<211> 18
<212> DNA
<213> Artificial

<220>
<223> synthetic oligonucleotide

<220>
<221> modified_base
<222> (2)..(2)
<223> n represents iso-cytosine

<400> 159
tncctgcaag ccagcacc

18

<210> 160
<211> 23
<212> DNA
<213> Artificial

<220>
<223> synthetic oligonucleotide

<220>
<221> modified_base
<222> (2)..(2)
<223> n represents iso-cytosine

<400> 160
tngctggacc aggctagata agc

23

<210> 161
<211> 21
<212> DNA
<213> Artificial

<220>
<223> synthetic oligonucleotide

<220>
<221> modified_base
<222> (2)..(2)
<223> n represents iso-cytosine

<400> 161
tngcaaggct ctacttcctg c

21

<210> 162
<211> 23
<212> DNA
<213> Artificial

<220>
<223> synthetic oligonucleotide

<220>
<221> modified_base
<222> (2)..(2)
<223> n represents iso-cytosine

<400> 162
tngtgtcttg gctgctcagt atg

23

<210> 163
<211> 24

<212> DNA
<213> Artificial

<220>
<223> synthetic oligonucleotide

<220>
<221> modified_base
<222> (2)..(2)
<223> n represents iso-cytosine

<400> 163
tncaacttct tggcatgggt tgtc

24

<210> 164
<211> 20
<212> DNA
<213> Artificial

<220>
<223> synthetic oligonucleotide

<220>
<221> modified_base
<222> (2)..(2)

<223> n represents iso-cytosine

<400> 164
tnccttctctg cactccacag

20

<210> 165
<211> 19
<212> DNA
<213> Artificial

<220>
<223> synthetic oligonucleotide

<220>
<221> modified_base
<222> (2)..(2)
<223> n represents iso-cytosine

<400> 165
tntgagcagt cggtcagtg

19